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Los Alamos
NATIONAL LABORATORY



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# Physical Sciences

@ LOS ALAMOS NATIONAL LABORATORY

Innovative science, technology, and engineering addressing the nation's most challenging problems

## Who we are

**Accelerator Operations and Technology Division** provides leadership in the Laboratory's core capability of accelerators and electrodynamics, which drives a wide range of Los Alamos mission-relevant portfolios.

**LANSCE-Facility Operations Division** enables safe and secure world-class research and accelerator operations by providing excellent facility services.

**Materials Physics and Applications Division** conducts world-class research in materials science at the atomic, nano-, meso-, and macro-scopic scales and enables the development of new technologies that solve pressing national energy and security challenges.

**Materials Science and Technology Division** provides world-leading, innovative, and agile materials science and technology solutions for national security missions.

**Physics Division** aims to further understanding of the diverse physical world, create new technologies in experimental physics, and extend the physics foundation for existing and future efforts.

**Sigma Division** manufactures experimental hardware and conducts basic and applied research in areas related to nuclear weapons, nuclear fuels, and a variety of customers relevant to the other programs.

The **Civilian Nuclear Program** is the focal point for nuclear energy research and development and next-generation repository science at the Lab.

The **Office of Science Programs** supports DOE with a diverse research portfolio that advances science needed for revolutionary energy breakthroughs, seeks to unravel nature's deepest mysteries, and provides researchers the opportunity to use the most advanced, large-scale tools of modern science.

## National User Facilities

**Center for Integrated Nanotechnologies:** Exploring the continuum from scientific discovery to the integration of nanostructured materials into the micro and macro worlds.

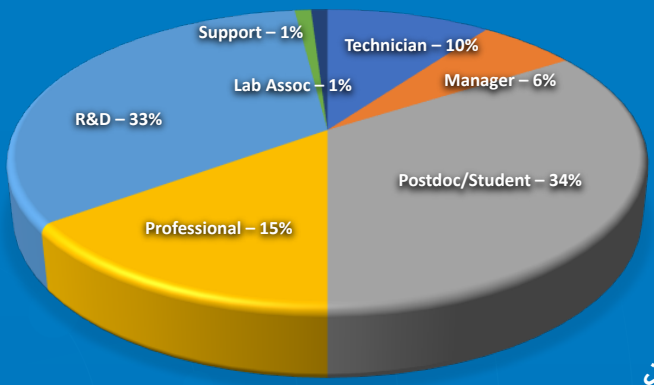
**Los Alamos Neutron Science Center:** Providing intense sources of neutrons and protons for experiments supporting civilian and national security research.

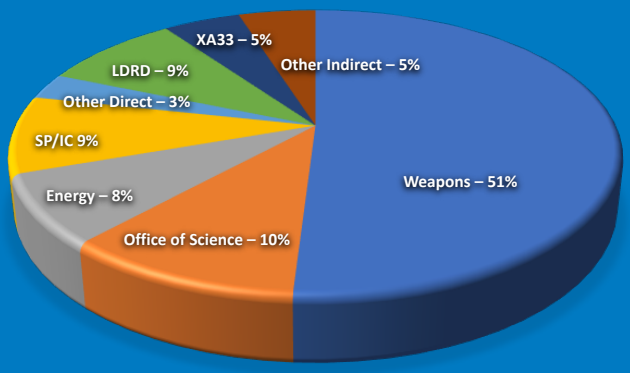
**National High Magnetic Field Laboratory-Pulsed Field Facility:** Probing and characterizing thermodynamic properties of new materials to understand the basic underpinnings of their behavior and discover new states of matter.

**www.lanl.gov/aldps**

# The Numbers

We execute our mission through the dedication of **1,144** individuals, with funding from a variety of programs, and by managing more than 2-million-square-feet of infrastructure.




▲ FY22 funding by program is **$578M**

# Mission and Values


The Laboratory has four strategic objectives: nuclear security; mission-focused science, technology, and engineering; mission operations; and community relations. To accomplish our mission, excellence in all areas is our objective—we call that simultaneous excellence. To achieve simultaneous excellence, we apply the Safe Conduct of Research principles, an essential part of our strategy.

## Safe Conduct of Research Principles

1. Everyone is personally responsible for ensuring safe operations.
2. Leaders value the safety legacy they create in their discipline.
3. Staff raise safety concerns because trust permeates the organization.
4. Cutting-edge science requires cutting-edge safety.
5. A questioning attitude is cultivated.
6. Learning never stops.
7. Hazards are identified and evaluated for every task, every time.
8. A healthy respect is maintained for what can go wrong.

**Physical Sciences** plays a leading role in the following major strategic initiatives.

- Foster world-leading science and technology in the physical sciences
- Grow a diversified programmatic portfolio
- Attract and develop world-class talent and leadership
- Integrate our capabilities with programs and build strategic partnerships both inside and outside the Laboratory
- Deliver world–leading user facilities
- Transform facilities and infrastructure and promote operational excellence
- Team with other organizations to make the Laboratory a great place to work

> “Because the excellence in science, technology, and engineering so fundamental to our work at the Laboratory is strongly coupled to operational excellence, the continued cultivation of a safe and healthy culture within the directorate and Los Alamos is an imperative to which myself and Lab leadership are wholly committed. The ultimate goal is to shape an even stronger performing, community-based, inclusive working culture across LANL.

Antoinette (Toni) Taylor
Associate Laboratory Director for Physical Sciences



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